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CHARTERED VERIFIED ENGINEER

March | 2026 NZ

GENUINE

ReidBar™ iPort Flange Anchor

Product Guide

Compact Anchoring Solution

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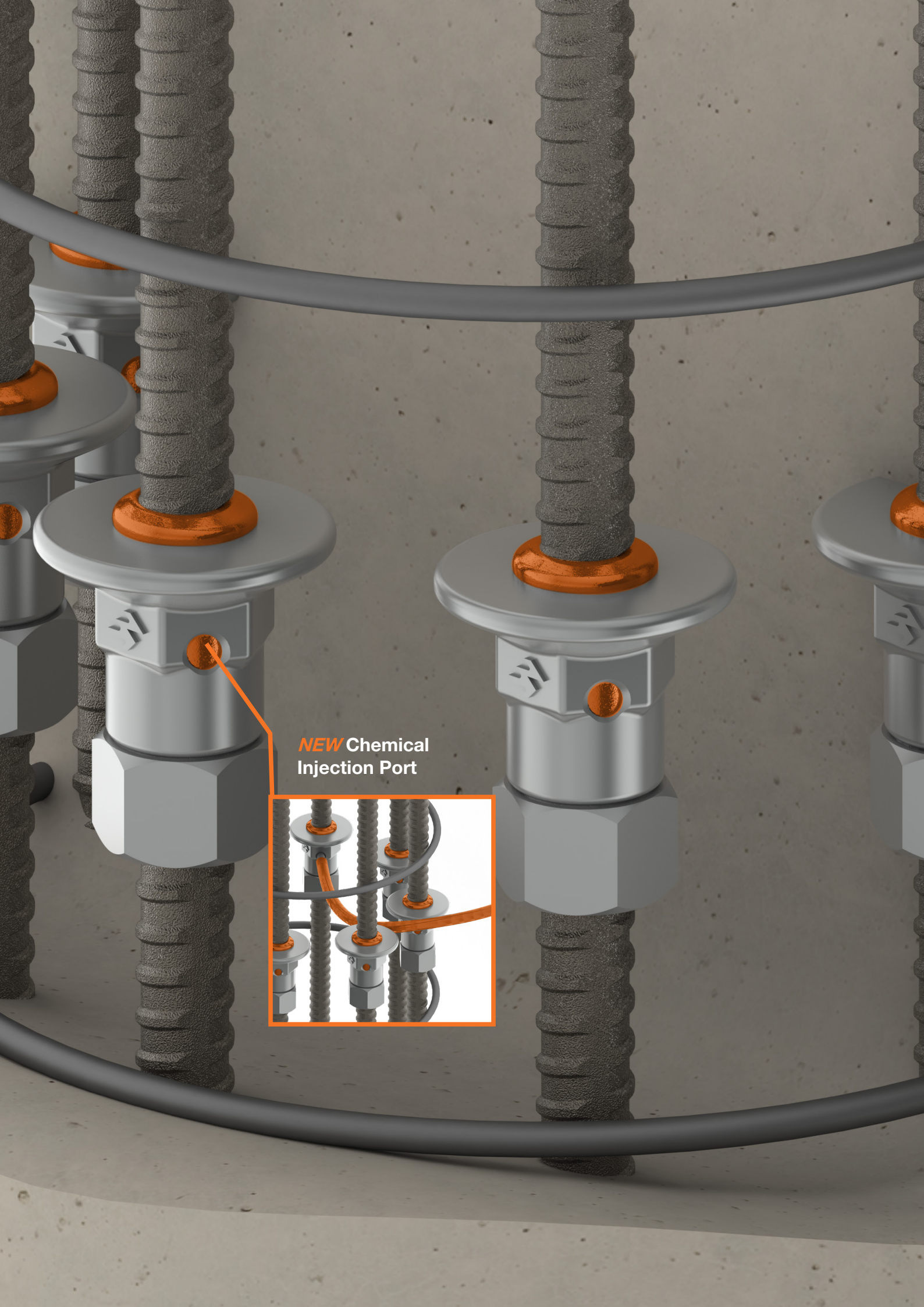
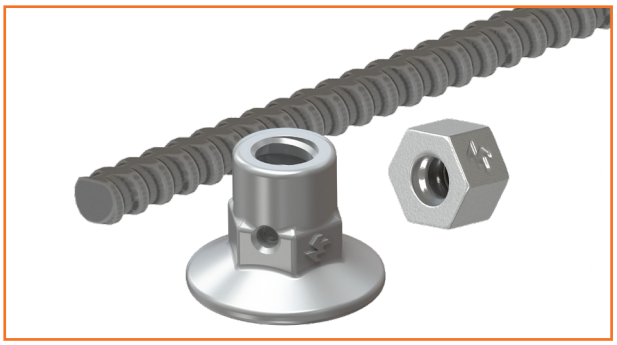

NEW Chemical
Injection Port



Contents

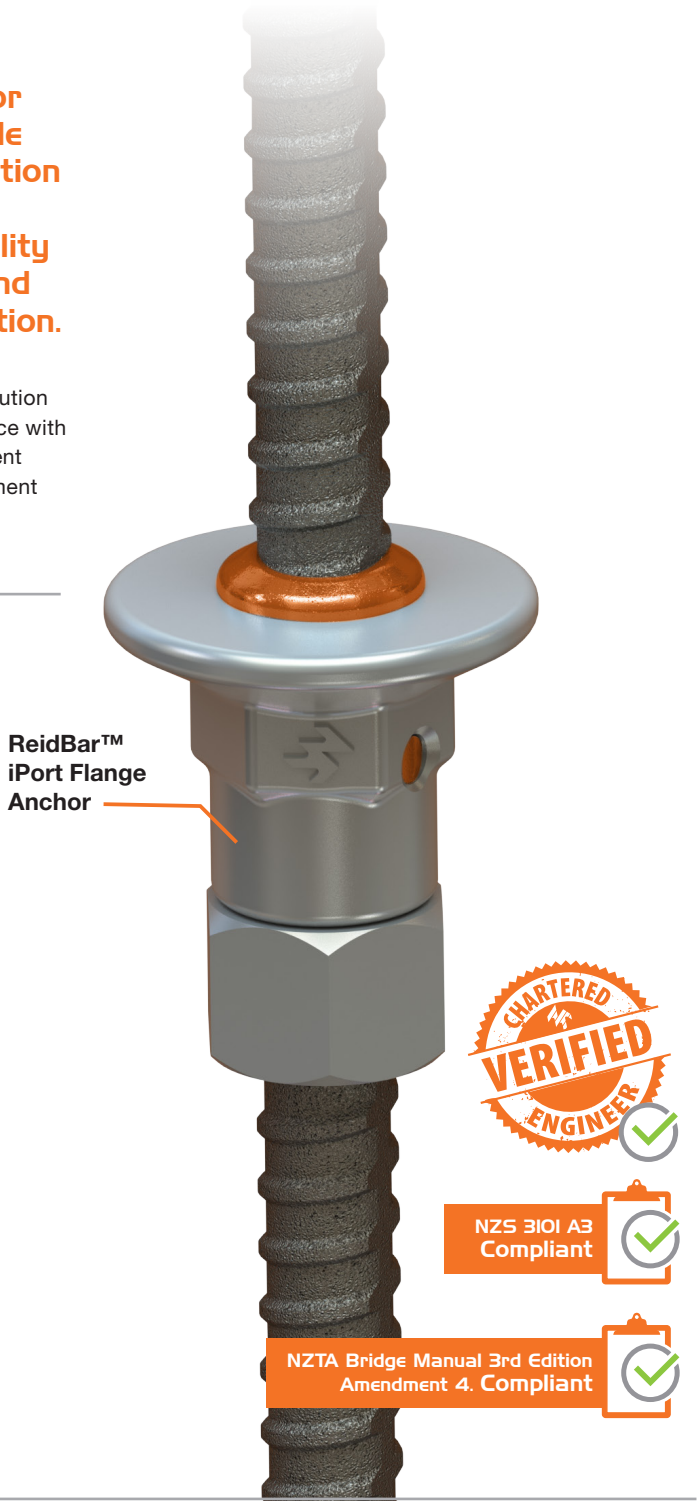
About ReidBar™ iPort Flange Anchor

The ReidBar™ iPort Flange Anchor provides a tested and Bridge Code complaint headed anchorage solution with an improved epoxy injection system supporting increased quality control, safe handling of epoxy and simplified labour efficient installation.

Available in steel, a ReidBar™ threaded anchoring solution that is independently tested to demonstrate compliance with the performance requirements of NZS 3101 Amendment 3 and of the NZTA Bridge Manual 3rd Edition Amendment 4 is now available to the New Zealand market.

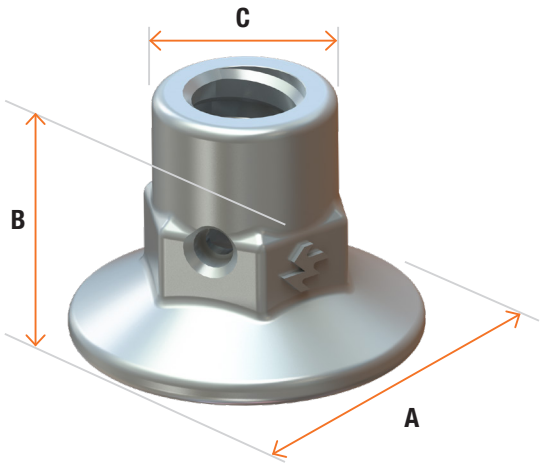
ReidBar™ iPort Flange Anchor Features & Benefits

- Compact headed anchor system which allows anchoring of reinforcing at heavily congested construction joints, such as pile caps and beam column joints.
- Provides alternative anchoring option when there is insufficient space for standard hooks.
- Flange Design for true headed anchor capacity.
- Injection “iPort” epoxy delivery system.
- Injection “iPort” allows for additional Mid Bar applications.
- Coarse threaded system requires no post threading.
- Injection process provides a visual indicator of installed quality.



Product Specifications

ReidBar™ iPort Flange Anchor



Part No.	Description	Foot diameter (A) (mm)	Length (B) (mm)	Body Diameter (C) (mm)	Hex Size A/F (mm)
RB12FAIPS	REIDBAR 12MM FLANGE ANCHOR IPORT STEEL	39	50	22	22.6
RB12FAIPSG	REIDBAR 12MM FLANGE ANCHOR IPORT STEEL GALV	39	50	22	22.6
RBA16FAIPS	REIDBAR 16MM FLANGE ANCHOR IPORT STEEL	58	50	35	36
RBA16FAIPSG	REIDBAR 16MM FLANGE ANCHOR IPORT STEEL GALV	58	50	35	36
RB20FAIPS	REIDBAR 20MM FLANGE ANCHOR IPORT STEEL	67	50	35	36
RB20FAIPSG	REIDBAR 20MM FLANGE ANCHOR IPORT STEEL GALV	67	50	35	36
RB25FAIPS	REIDBAR 25MM FLANGE ANCHOR IPORT STEEL	83	80	42	42
RB25FAIPSG	REIDBAR 25MM FLANGE ANCHOR IPORT STEEL GALV	83	80	42	42
RB32FAIPS	REIDBAR 32MM FLANGE ANCHOR IPORT STEEL	92	95	55	57
RB32FAIPSG	REIDBAR 32MM FLANGE ANCHOR IPORT STEEL GALV	92	95	55	57

Installation

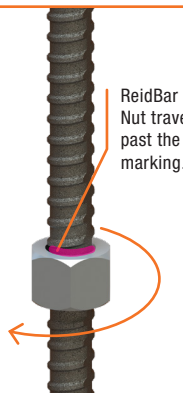
ReidBar™ iPort Flange Anchor Installation Guidelines below:

1

Determine Threaded Anchor installation marking location by deducting overall product length (Column B - Page 5) from final anchor head termination position along bar.

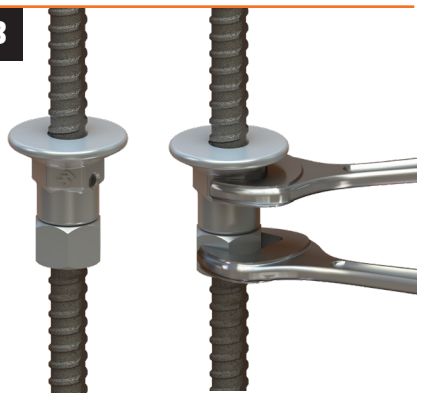
Mark the location on the bar where the Flange Anchor needs to be positioned.

2



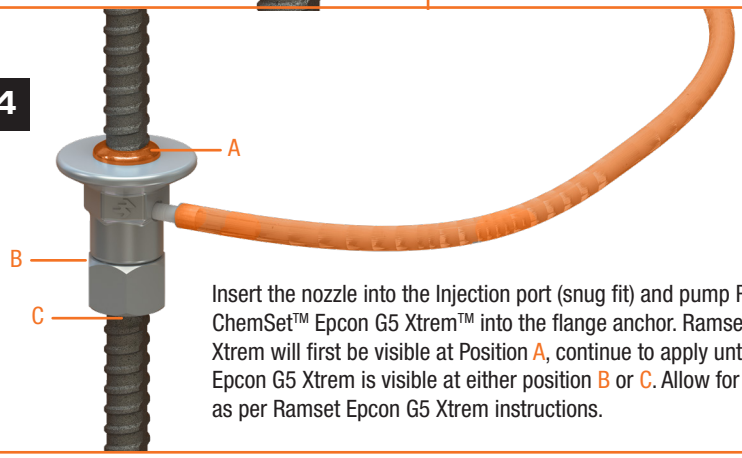
Thread ReidBar™ Half-Nut onto bar, ensuring pre-marked location remains visible at connection point.

3

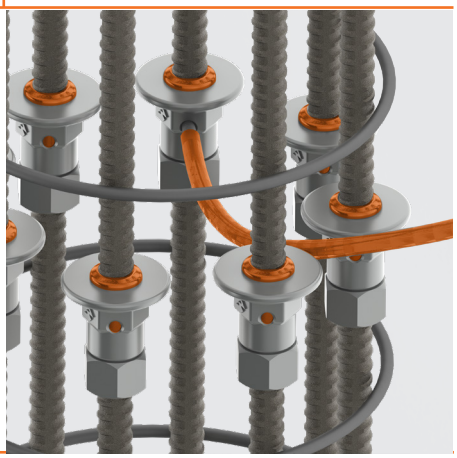


Thread the Flange Anchor onto the ReidBar™. Once the Flange Anchor reaches the Half Nut, use spanner to tighten the two components together. Ensure snug fit between two components prior to tightening.

4



Insert the nozzle into the Injection port (snug fit) and pump Ramset™ ChemSet™ Epcon G5 Xtrem™ into the flange anchor. Ramset Epcon G5 Xtrem will first be visible at Position A, continue to apply until Ramset Epcon G5 Xtrem is visible at either position B or C. Allow for curing time, as per Ramset Epcon G5 Xtrem instructions.



Recommended amount of Ramset Epcon G5 Xtrem injections

The ReidBar steel Flange Anchor & Half-Nut connection are to be installed utilising Ramset Epcon G5 Xtrem epoxy.

Typical specification on drawings: "RB_FAIPS / FAIPSG + RBNH/RBNHG + Ramset Chemset Epcon G5 Xtrem"

Part No.	Approx. No of Injections*	Approx. Fittings / Cartridge
RB12FAIPS / FAIPSG	2	55
RBA16FAIPS / FAIPSG	2	55
RB20FAIPS / FAIPSG	2/3	44
RB25FAIPS / FAIPSG	3	36
RB32FAIPS / FAIPSG	5	22

*recommendations are based on the use of mixing nozzle type "ISNE". Quantities based on full pumps. **Based on 110 pumps per Ramset Epcon G5 Xtrem cartridge Refer to step 4 for application detail.

Ensure the appropriate PPE is worn when working with Ramset Epcon G5 Xtrem. Refer to www.ramset.co.nz for Ramset Epcon G5 Xtrem MSDS Sheet.

Compliance Details

ReidBar™ iPort Flange Anchor

NZS 3101 A3 Compliant

NZS 3101 Amendment 3 Compliance Details

The following detail summarises the scope of assessment and testing completed to meet NZS3101:Part 1:2006 A3 requirements. Testing has been performed in a Third Party test facility using methods and processes to meet the highest standards providing assurance that designers can be confident in specifying the ReidBar™ iPort™ Flange Anchor.

Clause	Requirement	Compliant
Elongation at $0.7f_y$	8.7.5.2 (b) for requirements and testing.	✓
High-Cycle Fatigue	8.9.1.3 (b) refers to 5.4 of ISO 15835-1:2009 for requirements and to 5.5 of ISO 15835-2:2009 for testing.	✓
Large Strains / Low-Cycle Fatigue	8.9.1.3 (a) refers to 5.6.2 of ISO 15835-2:2009 for requirements and testing.	✓
Ultimate Tensile Strength / (UBBS)	8.6.11.1 & 8.6.11.2 for requirements.	✓
Mode of Failure	8.6.11.1, 8.6.11.3 and 8.6.11.4 for requirements.	✓
Resistance to Brittle Fracture	8.6.11.4 for requirements.	✓

Compliance Details

ReidBar™ iPort Flange Anchor

NZTA Bridge Manual 3rd Edition Amendment 4. Compliant

NZTA Bridge Manual 3rd Edition Amendment 4 Compliance Details

The following detail summarises the scope of testing completed to meet NZTA Bridge Manual 3rd Ed. A4 requirements. Testing has been performed in a Third Party test facility to meet the highest standards and processes providing assurance that designers can be confident in specifying the ReidBar™ iPort™ Flange Anchor in Civil Infrastructure applications.

Clause	Requirement	Compliant
Elongation at $0.7f_y$	4.2.1 (f) (i) refers to 8.7.5.2 (b) of NZS 3101 for requirements and testing	✓
High-Cycle Fatigue	4.2.1 (f) (i) refers to NZS 3101 and to ISO 15698-1:2009 for requirements (category F2), with reference to ISO 15835-1:2009 (category F) for load cycles and stress range.	✓
Large Strains / Low-Cycle Fatigue	4.2.1 (f) (i) refers to 8.6.11 and 8.9.1.3 of NZS 3101 and to ISO 15698-1:2012 (category S) for requirements	✓
Ultimate Tensile Strength / (UBBS)	4.2.1 (f) (i) refers to 8.6.11 of NZS 3101 for requirements	✓
Mode of Failure	4.2.1 (f) (i) refers to 8.6.11 and 8.9.1.3 of NZS 3101 and to ISO 15698-1:2012 (category S) for requirements	✓
Resistance to Brittle Fracture	4.2.1 (f) (iv) refers to 8.6.11.4 of NZS 3101 for requirements and to AS 1544.2 (Charpy V-notch impact resistance) and to AS/NZS 3678 for testing and acceptance respectively	✓

BPIR Compliance Details

Compliance statement

The Reid Iport Flange Anchor complies with the New Zealand Building Code clauses identified in Table 2.

Compliance details: New Zealand Building Code (NZBC)

NZBC Clause	Criteria	Compliance Status
B1.3.1	'Buildings, building elements and sitework shall have a low probability of rupturing, becoming unstable, losing equilibrium, or collapsing during construction or alteration and throughout their lives.'	✓
B1.3.2	'Buildings, building elements and sitework shall have a low probability of causing loss of amenity through undue deformation, vibratory response, degradation, or other physical characteristics throughout their lives, or during construction or alteration when the building is in use.'	✓
B1.3.3 (a), (b), (d), (e), (f), (g), (h), (j), (q)	'Account shall be taken of all physical conditions likely to affect the stability of buildings, building elements and sitework, including: (a) Self weight, (b) Imposed gravity loads arising from use . . . (d) Earth pressure, (e) Water and other liquids, (f) Earthquake, (g) Snow, (h) Wind . . . (j) Impact . . . (q) Time dependent effects including creep and shrinkage.	✓
B1.3.4	'Due allowance shall be made for: (a) The consequences of failure, (b) The intended use of the building, (c) Effects of uncertainties resulting from construction activities, or the sequence in which construction activities occur, (d) Variation in the properties of materials and the characteristics of the site, and (e) Accuracy limitations inherent in the methods used to predict the stability of buildings.'	✓
B2.3.1	'Building elements must, with only normal maintenance, continue to satisfy the performance requirements of this code for the lesser of the specified intended life of the building, if stated, or: (a) The life of the building, being not less than 50 years, if (i) Those building elements . . . Provide structural stability to the building, or (ii) Those building elements are difficult to access or replace, or (iii) Failure of those building elements to comply with the building code would go undetected during both normal use and maintenance of the building.'	✓
B2.3.2	B2.3.2 Individual building elements which are components of a building system and are difficult to access or replace must either: (a) All have the same durability, or (b) Be installed in a manner that permits the replacement of building elements of lesser durability without removing building elements that have greater durability and are not specifically designed for removal and replacement.	✓
F2.3.1	'The quantities of gas, liquid, radiation or solid particles emitted by materials used in the construction of buildings, shall not give rise to harmful concentrations at the surface of the material where the material is exposed, or in the atmosphere of any space.'	✓

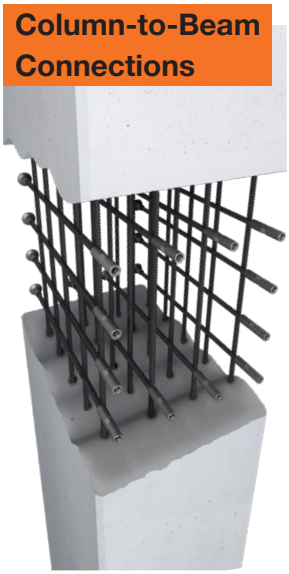
What is Genuine ReidBar™

Genuine ReidBar™ is a continuously threaded, hot rolled Grade 500E reinforcing bar manufactured in New Zealand in accordance with AS/NZS 4671:2019.

Genuine ReidBar™ Connection Systems deliver Optimised Reinforcing Connection solutions designed to increase structural system integrity, simplify complex connections and reduce overall application costs. All ReidBar™ Bar and ReidBar™ Connection Systems are manufactured within quality-controlled tolerances (ISO:9001) and tested In-Concrete via 3rd Party verification ensuring performance as a Genuine matched reinforcing system.

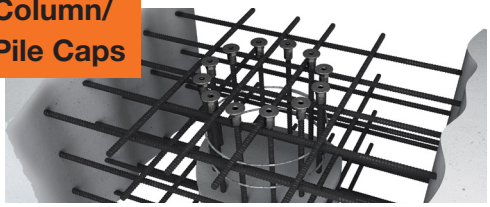
Applications

Column-to-Beam Connections

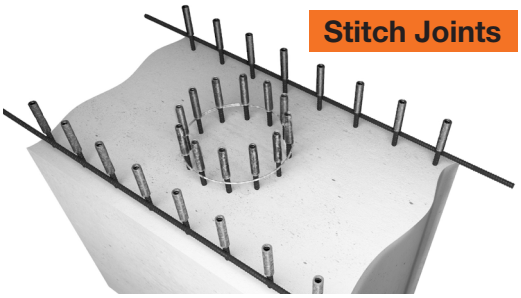


Wall-to-Slab Connections

Column/ Pile Caps



Stitch Joints



Genuine ReidBar™

Features & Benefits

Easy to install.

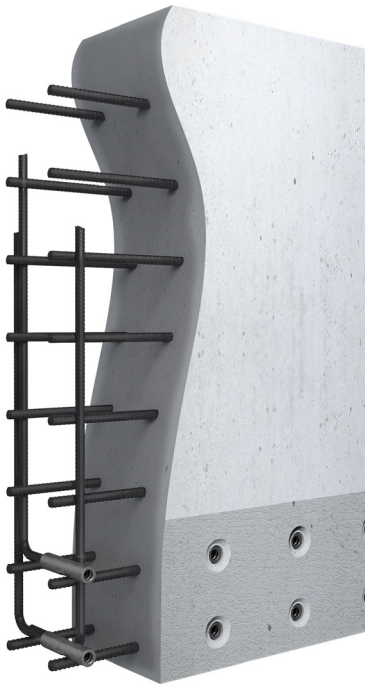
ReidBar™ is a user friendly continuous coarse thread reinforcing bar system that is fast, easy to assemble and readily available in New Zealand.

Confidence in quality.

ReidBar's continuous thread does not require pre threading of the reinforcing bar and therefore no testing for brittle fracture resistance is needed (as referenced in NZS 3101:2006 Section 8.6.11.4) This results in shorter lead times for the supply of reinforcing bar.

Supports onsite safety.

ReidBar™ system enables flush concrete construction without protruding starter bars, supporting safety on construction sites.



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